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23389 7590 06/13/2007 SCULLY SCOTT MURPHY & PRESSER, PC 400 GARDEN CITY PLAZA SUITE 300 GARDEN CITY, NY 11530			EXAMINER	
			WU, JIANYE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/689,362	TODA, YASUSHI				
Office Action Summary	Examiner	Art Unit				
	. Jianye Wu	2616				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,						
WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statufe, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status		·				
1) Responsive to communication(s) filed on	 					
	<u> </u>					
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) is/are pending in the applicatio	n.					
· · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-27</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	ef.					
10)⊠ The drawing(s) filed on 10/20/03 is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau						
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)	_					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summary Paper No(s)/Mail D					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal F					
Paper No(s)/Mail Date 1 1/106, 10/20/01	6) Other:					

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DETAILED ACTION

Specification Objections

There are many typographic errors in the specification, such as -

Claim Objections

Claim 11,12, 22, and 28 are objected to because of the typographic errors.

As to claim 11, last line, it appears that "DRCH" means to be -DTCH --.

As to claim 22, line 5, it appears that "DCMA" means to be -CDMA---.

As to claim 28, line 5, it appears that "DCMA" means to be -CDMA--.

Appropriate correction is required.

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 28- 30 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

For **claim 28**, the claimed software is non-statutory subject matter since it is not a process, machine, manufacture nor composition of matter; nor it is recorded on some computer-readable medium, see MPEP 2106(IV)(B)(1).

Claim 28 lacks the proper preamble language for statutory computer program product. See MPEP 2100 for guidance on computer related inventions.

The examiner suggests a preamble as follows:

"A computer readable medium containing computer executable instructions to perform a method, the method comprising:"

Correction is required.

For **claims 29** and **30**, they have the same problem as explained in claim 28 above.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claim 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Cromer et al. 3GPP ETSI TS 125 331, "UMTS RRC Protocol Specification", V4.0.0, 2003-03, (hereinafter 3GPP331).

For **claim 1**, 3GPP331 discloses a data communication system constructed as a transmitting side data communication terminal device (<u>UE, Fig. 2, Page 30</u>) comprising a coding means (<u>DCFE in Fig. 2, Page 30</u>; or 4th item of Section 4.2, Page 29) for generating, by receiving supplied transmitted data and transmission parameter, coded/multiplexed transmitted data corresponding to the transmitted data and transmission parameter and a transmitting process parameter used for a transmitting process on the coded/multiplexed transmitted data, wherein;

the coding means (<u>DCFE in Fig. 2</u>, <u>Page 30</u>; or 4th item of Section 4.2, <u>Page 29</u>), includes:

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the transmitting side data communication terminal device having a coding process unit (3rd item of Section 5.1, Page 32, a part of RRC functions for establishing a connection) for obtaining the coded/multiplexed transmitted data corresponding to the transmitted data by using a supplied coding process parameter (TFCI, Section 10.3.5.12, Page 370), a parameter calculation check unit for checking (TFCI range method, Section 10.3.5.14, Page 371, means for handling TFCI range method), according to transport format data contained in the transmission parameter, whether the process parameter concerning a pertinent transport format combination has been calculated, a coding parameter calculation unit (*TFCI*, Section 10.3.5.12, Page 370, implied by device for calculating TFCI parameter) for calculating the process parameter including the coding process parameter and the transmitting process parameter according to the transmission parameter, and a buffer control means (memory, line 3 of NOTE 1, Section 5.1, Page 32) for reading out and storing a pertinent process parameter with respect to the process parameter buffer according to a buffer control signal form the parameter calculation check unit, while updating utilization frequency data; and

a receiving side data communication terminal unit (<u>UE, Figure 2 of Page 30</u>) including a decoding means ("<u>UE shall perform decoding ...", Line 4 of Section 8.1.1.1.4, Page 42</u>) for receiving non-decoded data supplied from a receiving means (<u>3rd item of Section 5.1, Page 32, a part of RRC functions for establishing a connection</u>), which executed process on the received data by using a receiving process parameter (TFCS Explicit Configuration, <u>Section 10.3.5.13</u>, <u>Page 371</u>), and generating decoded

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received data by using a supplied reception parameter, the decoding means having a decoding process unit (Section 10.3.5.12, Page 370, means for calculating TFCI) for obtaining decoded received data by decoding non-decoded data supplied from the receiving means, which executes a process using the receiving process parameter, a parameter calculation check unit for checking (Figure 21 or Counter check of Section 8.1.15, Page 85), at the time of the reception and by using transport format combination indicator (TFCI Field 2 Information, Section 10.3.5.12, Page 370) data obtained from the decoding process unit, whether the process parameters in the pertinent transport format combination have been calculated, a decoding parameter calculation unit (TFCI Field 2 Information, Section 10.3.5.12, Page 370) for calculating the process parameter including the decoding process parameter and the receiving process parameter, a process parameter buffer (memory, line 3 of NOTE 1, Section 5.1, Page 32) for preserving a plurality of process parameters, and a buffer control means (inherent from memory, line 3 of NOTE 1, Section 5.1, Page 32) for reading out and storing a pertinent process parameter with respect to the process parameter buffer according to a buffer control signal from the parameter calculation check unit, while updating the utilization frequency data (3rd item of Section 5.1, Page 32, all of the above are part of Establishment, maintenance and release of an RRC connection as described in the item, considering CDMA technology is well known in the art).

As to **claim 2**, it is equivalent to the coding means in claim 1, therefore, is rejected for the reason as explained in claim 1 above.

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As to **claim 3**, it is equivalent to the decoding means in claim 1, therefore, is rejected for the reason as explained in claim 1 above.

Claim Rejections - 35 USC § 103

3. The **following** is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 4-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over 3GPP331 in view of Tim Forrester (US 2002/0173284, hereinafter Forrester). Lee et al., (US 2002/0082020 A1, hereinafter Lee) and

As to **claim 4**, 3GPP331 discloses the data communication terminal device according to claim 2, wherein the parameter update record flag (*TFCI combining* indicator, 6th line from bottom, Page 140);

3GPP331 is **silent on** the flag indicating preference rank of TFCI and using the history of past use of TFCI.

Forrester teaches storing parameters storing parameters with historic information for the later use (lines 6-7 of [051]). One skilled in the art would have been motivated to combine 3GPP331 with Forrester to save historic information of the key parameters for future use for the benefit of saving computing time and power.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to combine 3GPP331 with Forrester to save historic information of the key parameters for future use for the benefit of saving computing time and power.

As to **claim 5**, 3GPP331 discloses the data communication terminal device according to claim 3, wherein the parameter update record flag (*TFCI combining indicator*, 6th line from bottom, Page 140);

3GPP331 is **silent on** the flag indicating preference rank of TFCI and using the history of past use of TFCI.

Forrester teaches store parameters storing parameters with historic information for the later use (<u>lines 6-7 of [051]</u>). One skilled in the art would have been motivated to combine 3GPP331 with Forrester to save historic information of the key parameters for future use for the benefit of saving computing time and power.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to combine 3GPP331 with Forrester to save historic information of the key parameters for future use for the benefit of saving computing time and power.

As to **claim 6**, 3GPP331 discloses the data communication terminal device according to claim 2.

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3GPP331 is **silent on** wherein the parameter calculation check unit causes, when it decides that the pertinent process parameter has not net been calculated, the coding parameter process unit to calculate the process parameter and issues, when the process parameter has been calculated, an instruction to the buffer control means for reading out the process parameter from the process parameter buffer and using the read-out process parameter.

Forrester teaches storing parameters storing parameters with historic information for the later use (<u>lines 6-7 of [051]</u>) as explained in claim 4 above. One skilled in the art would have been motivated to combine 3GPP331 with Forrester to use the saved key parameters for the benefit of saving computing time and power.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to combine 3GPP331 with Forrester to use the saved key parameters for the benefit of saving computing time and power.

As to **claim 7**, 3GPP331 discloses the data communication terminal device according to claim 3.

3GPP331 is **silent on** wherein the parameter calculation check unit causes, when it decides that the pertinent process parameter has not net been calculated, the coding parameter process unit to calculate the process parameter and issues, when the process parameter has been calculated, an instruction to the buffer control means for reading out the process parameter from the process parameter buffer and using the read-out process parameter.

Forrester teaches storing parameters storing parameters with historic information for the later use (lines 6-7 of [051]) as explained in claim 5 above. One skilled in the art would have been motivated to combine 3GPP331 with Forrester to use the saved key parameters for the benefit of saving computing time and power.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to combine 3GPP331 with Forrester to use the saved key parameters for the benefit of saving computing time and power.

As to **claim 8**, 3GPP331 discloses the data communication terminal unit according to one of claims 2 and 3.

3GPP331 is **silent on** wherein the buffer control means adds, to the contents in the process parameter buffer, the number of times of use of transport format combination indicator (TFCI) in a pertinent parameter table, with respect to which reading and storing are done, while updating TFCI use history.

Forrester teaches storing parameters with historic information for the later use (lines 6-7 of [051]) as explained in claim 4 or 5 above, and TFCI is a such parameter.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to combine 3GPP331 with Forrester to save the historic information of TFCI for later use for the benefit of saving computing time and power.

As to claim 9, 3GPP331 discloses the data communication terminal unit according to one of claims 2 and 3.

3GPP331 is **silent on** wherein in the reading and storing of the process parameter with respect to the process parameter buffer, the buffer control means uses the area of a non-use parameter table if such non-use parameter table is present.

Forrester teaches storing parameters with historic information for the later use (lines 6-7 of [051]) as explained in claim 4 or 5 above. One skilled on the art would have been motivated to let storage control mechanism (buffer control means) to use the area of a non-use parameter table if such non-use parameter table is present for the benefit of storage efficiency.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to combine 3GPP331 with Forrester to use the area of a non-use parameter table if such non-use parameter table is present for the benefit of storage efficiency.

As to **claim 10**, 3GPP331 discloses the data communication terminal unit according to one of claims 2 and 3.

3GPP331 is **silent on** wherein the buffer control means is constructed such that when no non-use parameter table is present in the process parameter buffer at the time of storing the process parameter buffer, the buffer control means determines a parameter table to be a superscription subject according to the result of a weighing process on at least either the use history of a plurality of times of past use of TFCI.

Forrester teaches storing TFCI with historic information for the later use (<u>lines 6-7</u> of [051]) as explained in claim 4 or 5 above. One skilled on the art would have been motivated to decide to use the parameter or not based according to the result of a

weighing process on at least either the use history of a plurality of times of past use for searching an optimal solution.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to combine 3GPP331 with Forrester to use the parameter or not based according to the result of a weighing process on at least either the use history of a plurality of times of past use for searching an optimal solution.

As to **claim 11**, 3GPP331 and Forrester in combination disclose the data communication terminal device according to one of claims 4 and 5.

3GPP331 and Forrester are **silent on** wherein when no data transport rate restriction can be externally imposed, an upper rank system controls the setting of a pertinent preference rank record flag in the process buffer parameter according to the presence/absence data about discrete control channel (DCCH) and a transport format combination indicator (TFCI) as a combination of the maximum and minimum data quantity discrete traffic channels (DTCH).

However, one skilled on the art would have been motivated to decide whether to assign parameters with a preference rank record flag according to the presence/absence data about DCCH and TFCI for the purpose of selecting the best parameter.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to assign parameters with Forrester to according to the presence/absence data about DCCH and TFCI for the benefit of selecting the best parameter.

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As to **claim 12**, 3GPP331 and Forrester in combination disclose the data communication terminal device according to one of claims 4 and 5.

3GPP331 and Forrester are **silent on** wherein no data transport rate restriction can be externally imposed, an upper rank system controls the setting of a pertinent preference rank record flag in the process parameter buffer according to the presence/absence data about discrete control channel (DCCH) and a transport format combination indicator (TFCI) as a combination of the maximum and minimum data quantity ones of the discrete traffic channel (DTCH) transport formats within the transport rate restriction.

However, one skilled on the art would have been motivated to decide whether to assign parameters with a preference rank record flag according to the presence/absence data about DCCH and TFCI for the benefit of selecting the best parameter.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to assign parameters with Forrester to according to the presence/absence data about DCCH and TFCI for the benefit of selecting the best parameter.

As to Claim 18, 3GPP331 discloses the data communication terminal device according to one of claims 2 and 3.

3GPP331 is **silent on** wherein the process parameter buffer can read out a part of full data possessed by itself at a desired timing into the upper rank controller for storing the read-out data in a pertinent non-volatile memory at a desired timing.

Forrester teaches storing TFCI with historic information for the later use (<u>lines 6-7</u> of [051]) as explained in claim 4 or 5 above. One skilled on the art would have been motivated to read saved parameter with a proper timing for the benefit of ensuring device normal operation and saving power.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to combine 3GPP331 with Forrester to read saved parameter with a proper timing for the benefit of ensuring device normal operation and saving power.

As to **Claim 19**, 3GPP331 and Forrester disclose the data communication terminal device according to one of claim 18.

at the next time, initial data can be transported from the non-volatile memory to the process parameter buffer.

However, one skilled on the art would have been motivated to load initial data into parameter buffer from non-volatile memory since it is a common practice in the art.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to load initial data into parameter buffer from non-volatile memory due to obvious industry expedient.

As to Claim 20, 3GPP331 discloses the data communication terminal device according to one of claims 2 and 3.

3GPP331 is **silent on** wherein a part or full data held in the process parameter buffer are read out into the upper rank controller at a desired timing for storing the read-out data in a predetermined service in the network at a desired timing.

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Forrester teaches storing TFCI with historic information for the later use (<u>lines 6-7</u> of [051]) as explained in claim 4 or 5 above. One skilled on the art would have been motivated to read part of saved parameters that is necessary for device operation with a proper timing for the benefit of efficiency, speed and saving power.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to combine 3GPP331 with Forrester to read part of saved parameters that is necessary with a proper timing for the benefit of efficiency, speed and saving power.

As to Claim 21, 3GPP331 and Forrester disclose the data communication terminal device according to one of claim 20.

3GPP331 and Forrester are **silent on** wherein when utilizing the same service at the next time, initial data can be read-out from the service and transported to the process parameter buffer.

However, one skilled on the art would have been motivated to load initial data into parameter buffer from non-volatile memory since it is a common practice in the art.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to load initial data into parameter buffer from non-volatile memory due to obvious industry expedient. For **Claim 22**, it is an equivalent method

claim of claim 14 because the inventive concept is the same, therefore, is rejected for the reason as explained in claim 14 above.

For Claim 23, it is an equivalent method claim of claim 4 because the claimed inventive concept is the same, therefore, is rejected for the reason as explained in claim 4 above.

For Claim 24, it is an equivalent method claim of claim 5 because the claimed inventive concept is the same, therefore, is rejected for the reason as explained in claim 5 above.

As to **25**, it is equivalent method claims of claim 12 because the claimed inventive concept is the same, therefore, is rejected for the reason as explained in claim 12 above.

As to Claim 26, 3GPP331 and Forrester in combination disclose the data communication terminal device according to one of claims 23 and 24, wherein the preference rank of the parameter to be applied is updated according to the transport rate control data or the receiving sensitivity data given from the network (this is equivalent to calculating the parameter base on new conditions).

As to Claim 27, it is equivalent method claims of claim 18 because the claimed inventive concept is the same, therefore, is rejected for the reason as explained in claim 18 above.

For Claim 28, it is equivalent method claims of claim 8 because the claimed inventive concept is the same, therefore, is rejected for the reason as explained in claim 8 above.

For **Claim 29**, it is the coding function part of claim 28, therefore, is rejected for the reason as explained in claim 28 above.

For **Claim 30**, it is the decoding function part of claim 28, therefore, is rejected for the reason as explained in claim 28 above.

4. Claims 13-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over 3GPP331 in view of Lee et al., (US 2002/0082020 A1, hereinafter Lee) and Forrester.

As to Claim 13, GPP331 and Forrester in combination disclose the data communication terminal device according to one of claims 4 and 5,

Forrester further discloses wherein process buffer parameter is capable of setting the management of the supply and stop of its own operation power and operation clock for each parameter table and also capable of stopping the supply of the operation power and/or operation clock to the non-use parameter tables (power-down and power-up commands in [0041]).

As to Claim 14, GPP331 discloses the data communication terminal device according to claim 2.

GPP331 is **silent on** wherein the coding parameter calculation unit is constituted by hardware such as electronic circuits, and the supply of its own operation power and/or operation clock is stopped when the process parameters of all transport format combination indicators in the utilized service have been calculated and stored in the process parameter buffer.

Forrester teaches power-down or power-up depending on operation conditions (power-down and power-up commands in [0041]). One skilled in the art would have

been motivated to combine GPP331 with Forrester for the benefit of saving power, which is essential for wireless device.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to combine GPP331 with Forrester for the benefit of saving power.

As to **Claim 15**, GPP331 discloses the data communication terminal device according to claim 3.

Forrester teaches power-down or power-up depending on operation conditions (power-down and power-up commands in [0041]). One skilled in the art would have been motivated to combine GPP331 with Forrester for the benefit of saving power, which is essential for wireless device.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to combine GPP331 with Forrester for the benefit of saving power.

As to Claim 16, it is rejected for the same reason explained in claim 14 since the device is in idle state when in power-down state.

As to Claim 17, it is rejected for the same reason explained in claim 15 since the device is in idle state when in power-down state.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jianye Wu whose telephone number is (571)270-1665. The examiner can normally be reached on Monday to Friday, 8am to 5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on (571)272-3174. The fax phone number for the organization where this application or **proceeding** is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jianye Wu

5/31/07

SEEMA S. RAO

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